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- 350 348/308.ccls. US - 4 lee-do-young.in. US - 588 20010208.ad. US - 54 20010208.ad. and Lee	SPAT SPAT SPAT SPAT	Time stamp 2004/07/07 11:09 2004/06/30 07:31 2004/06/23 16:02
- 350 348/308.ccls. US - 4 lee-do-young.in. US - 588 20010208.ad. US - 54 20010208.ad. and Lee	SPAT SPAT	2004/06/30 07:31
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	SPAT	2004/06/23 16:11
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1 = 1 = 2 = 2 = 2 = 2 = 3	SPAT	2004/06/24 08:23
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1	SPAT	2004/06/24 08:51
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1	SPAT;	2004/06/28 14:54
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- 1   "5689208".PN. US	SPAT	2004/06/24 09:05

-   1   "4602289" PN.   USPAT   2004/06/24 0   20		•	US (25210) DV	I TIOD - m	0004/06/06 55
-   1   "4302587" PN   2004/06/24   2004/0	-	1	"5625210".PN.	USPAT	2004/06/24 09:05
-   1	1-				2004/06/24 09:52
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- 1 "6566723" PN 7 ("465(100)"   "5605847"   "6184945"   "6211553"   "6335770"   USPAT 2004/06/24 0 2004/06/24 0 USPAT, "6342935"   "6344885").PN 0 "932 320 A2" USPAT, USPGPUB, EFO, IPO USPA	-	1	"5144447".PN.	USPAT	2004/06/24 09:56
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- 7 ("4651001"   "5605847"   "6184945"   "6211553"   "6335770"   USPAT   2004/06/24 1 USP-GPUB; EPO, IPO USPAT; USP-GPUB;	_	1	"6566723".PN.	USPAT	2004/06/24 09:57
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- 1 "932320 A2" USPAT; US-PGPUB; EPQ, IPO US	<i>X</i> -	0	l ' '	LISPAT.	2004/06/24 12:10
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-   1   "932320 A2"					
US-PGPUB; EPO, JPO USPAT; US-PGPUB; US-PGPUB		١,			2004/06/04 12 21
EPO, JPO USPAT; USPGPUB; EPO, JPO USPAT; USPGP	-	1	932320 AZ	1	2004/06/24 12:21
-   0   9920052.1   USPAT; US-PGPUB; EPO, IPO USPAT; US-PGPUB; US-PGPU				1	
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- 0 99200052.1		ļ		US-PGPUB;	
US-PGPUB; EPO, IPO USPAT; US-PGPUB; EPO, IPO				EPO; JPO	
- 0 "932 320 A2" US-PGPUB; EPO, IPO USPAT; U	-	0	99200052.1	USPAT:	2004/06/24 12:20
EPC, JPO USPAT, US-POPUB; EPC, JPO US-POPUB; EPC					
- 0 "932 320 A2"  - 1 "932302 A2"  - 0 6522356.pn. and micro\$5  - 0 6522356.pn. and micro\$8  - 0 6522356.pn. and (lens\$4)  - 0 6522356.pn. and (lens\$4)  - 1 6522356.pn. and (lens\$4)  - 1 6522356.pn. and (lens\$4)  - 1 6522356.pn. EP000932302A2) and scan\$7  - 1 (6522356.pn. EP000932302A2) and reset\$7  - 0 6522356.pn. and reset\$7  - 1 (6522356.pn. and reset\$7  - 1 (6522356.pn. and reset\$7  - 1 (6522356.pn. EP000932302A2) and reset\$7  - 1 (6522356.pn. and reset\$7  - 2004/06/24 in US-PGPUB; EPO, IPO USPAT; US-PGPUB; EPO, IPO				1	
US-PGPUB; EPO, JPO USPAT; US-PGPUB; EPO, JPO 2004/06/24 I: US-PGPUB; EPO, JPO 2004/06/28 II "S479050"   "547	_		"932_320_A2"	1 .	2004/06/24 12:20
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1   "932302 A2"					
US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT US-PGPUB; EPO; JPO USPAT; US-PGPUB; USPAT; US-PGPUB;		,	11020202 4.211	1 7	2004/06/24 12 24
EPO, JPO USPAT; US-PGPUB; EPO, JPO USPAT; US	-	1	"932302 AZ"	1	2004/06/24 12:34
- 0 6522356.pn. and micro\$5  - 0 6522356.pn. and micro\$8  - 0 6522356.pn. and (lens\$4)  - 0 6522356.pn. and (lens\$4)  - 0 6522356.pn. and (lens\$4)  - 1 6522356.pn. and (lens\$4)  - 1 6522356.pn. and (lens\$4)  - 1 (6522356.pn. EP000932302A2) and scan\$7  - 1 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. and reset\$7  - 1 5898168.pn.  - 1 5898168.pn.  - 1 ("4392152"   "5270573"   "5313095"   "5397905"   "549350"   "5479050"   "5491360"   "5563441"   "5598038"   "5661342"   "5704593"   "5704593"   "5704593"   "5705737").PN.  - 0 photodiode\$2 and "sides near7 positioned"  USPAT, US-PGPUB; EPO, JPO				1	
US-PGPUB; EPO; JPO USPAT; US-PGPUB;					
EPO, JPO   USPAT; US-PGPUB; US-PG, JPO   USPAT; US-PGPUB; US-PG, JPO   USPAT; US-PGPUB; US-PG, JPO   USPAT; US-P	-	0	6522356.pn. and micro\$5	USPAT;	2004/06/24 12:34
- 0 6522356.pn. and micro\$8  - 0 6522356.pn. and (lens\$4)  - 1 6522356.pn. and (lens\$4)  - 1 6522356.pn. EP000932302A2) and scan\$7  - 1 (6522356.pn. EP000932302A2) and scan\$7  - 0 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. and reset\$7  - 1 5898168.pn.  - 1 2 ("4392152"   "5270573"   "5313095"   "5493350"   "5479050"   "5479350"   "5491360"   "5563441"   "5598038"   "5661342"   "5704593"   "5491360"   "5504441"   "5598038"   "5661342"   "5704593"   "5704593"   "5704593"   "5704593"   "5704593"   "5661342"   "5704593"   "5704593"   "5704593"   "5704593"   "5661342"   "5704593"   "5704593"   "5704593"   "5704593"   "5704593"   "5704593"   "5601342"   "5704593"   "5704593"   "5491360"   "5504411"   "5598038"   "5661342"   "5704593"   "5704593"   "5491360"   "5504411"   "5598038"   "5661342"   "5704593"   "5704593"   "5491360"   "5504411"   "5598038"   "5661342"   "5704593"   "5704593"   "5491360"   "5504411"   "5598038"   "5661342"   "5704593"   "5704593"   "5491360"   "5504411"   "5598038"   "5661342"   "5704593"   "560406/28 10"   "5704593"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "50406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "50406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704593"   "560406/28 10"   "5704				US-PGPUB;	
US-PGPUB; EPO, JPO USPAT; US-PGPUB; EPO, JPO				ЕРО; ЈРО	
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- 0 6522356.pn. and (lens\$4)  - 1 6522356.pn. and (lens\$4)  - 1 6522356.pn. EP000932302A2) and scan\$7  - 1 (6522356.pn. EP000932302A2) and scan\$7  - 0 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. and reset\$7  - 0 (6522356.pn. and reset\$7  - 1 5898168.pn.  - 1 5898168.pn.  - 1 ("4392152"   "5270573"   "5313095"   "5397905"   "5459350"   USPAT; US-PGPUB; EPO; JPO USPAT; US-PG			•	1	
- 0 6522356.pn. and (lens\$4)  - 1 6522356.pn.  - 1 6522356.pn.  - 1 (6522356.pn. EP000932302A2) and scan\$7  - 1 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. EP000932302A2) and reset\$7  - 0 (6522356.pn. and reset\$7  - 0 6522356.pn. and reset\$7  - 1 5898168.pn.  - 1 2 ("4392152"   "5270573"   "5313095"   "5397905"   "5459350"   "5479050"   "5491360"   "55563441"   "5598038"   "5661342"   "5704593"   "5704593"   "5767573").PN.  - 0 photodiode\$2 and "sides near7 positioned"  - 1 0 USPAT; USPAT; USPAT   USPAT; USPAT   US					
US-PGPUB; EPO; JPO USPAT; US-PGPUB; US-PGPU	_	0	6522356 nn, and (lens\$4)		2004/06/24 12:56
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- 1 6522356.pn. EP000932302A2) and scan\$7					
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EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US	-	1	6322330.ptt.	1	2004/06/24 12:38
- 1 (6522356.pn. EP000932302A2) and scan\$7					
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- 0 (6522356.pn. EP000932302A2) and reset\$7	-	1	(6522356.pn. EP000932302A2) and scan\$7		2004/06/24 16:17
- 0 (6522356.pn. EP000932302A2) and reset\$7					
US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT, US-PGPUB; EPO; JPO USPAT, US-PGPUB; EPO; JPO USPAT, US-PGPUB; EPO; JPO USPAT US-PGPUB; USPAT US-PGPUB; USPAT US-PGPUB; USPAT; US-PGPUB; USPAT; US-PGPUB; USPAT; US-PGPUB;					
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- 1 5898168.pn.					
- 1 5898168.pn. USPAT; US-PGPUB; EPO; JPO USPAT 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/24 10 2004/06/28					
US-PGPUB; EPO; JPO USPAT 2004/06/28 0	-	1	5898168.pn.		2004/06/24 16:21
- 12 ("4392152"   "5270573"   "5313095"   "5459350"   USPAT 2004/06/28 0"			*		
- 12 ("4392152"   "5270573"   "5313095"   "5397905"   "5459350"   USPAT 2004/06/28 0"   "5479050"   "5491360"   "5563441"   "5598038"   "5661342"   "5704593"   "5767573").PN.					
"5479050"   "5491360"   "5563441"   "5598038"   "5661342"   "5704593"   "5767573").PN.  o photodiode\$2 and "sides near7 positioned"  USPAT; US-PGPUB;	_	12	("4302152"   "5270573"   "5313005"   "5307005"   "5450350"		2004/06/20 00:47
- 0 "5704593"   "5767573").PN. photodiode\$2 and "sides near7 positioned" USPAT; US-PGPUB;	_	12		OSFAI	2004/00/28 09:4/
- 0 photodiode\$2 and "sides near7 positioned" USPAT; US-PGPUB; 2004/06/28 1					
US-PGPUB;				I I I I I I I I I I I I I I I I I I I	2004/06/20 ***
	-	"	photodiodeaz and "sides near/ positioned"		2004/06/28 11:16
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	-	0	CMOS and "sides near7 positioned"		2004/06/28 11:16
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1 1	-	574	CMOS and (sides near7 positioned)		2004/06/28 11:16
US-PGPUB;			,		
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. •	75	CMOS and (sides near7 positioned) and photodiode	USPAT; US-PGPUB;	2004/06/28 11:16
-	53	CMOS and (sides near7 positioned) and photodiode and transistor\$2	EPO; JPO USPAT; US-PGPUB;	2004/06/28 11:31
-	22	("5471515"   "5587596"   "5608243"   "5625210"   "5631704"   "5721425"   "5760458"   "5789774"   "5838650"   "5841159"   "5841176"   "5847422"   "5859450"   "5892253"   "5970316"   "5995163"   "6005619"   "6008486"   "6051447"   "6160281"	EPO; JPO USPAT	2004/06/28 11:19
-	3	"6160282"   "6259124").PN. CMOS and photodiode and transistor\$2 adj layout	USPAT; US-PGPUB; EPO; JPO	2004/06/28 11:32
-	186	crosstalk and MTF	USPAT; US-PGPUB; EPO; JPO	2004/06/28 11:32
-	38	(US-6522356-\$ or US-6753912-\$ or US-6654057-\$ or US-6650369-\$ or US-5796481-\$ or US-6707497-\$ or US-6197503-\$ or US-5119183-\$ or US-5519497-\$ or US-4594514-\$ or US-4697280-\$ or US-4080723-\$ or US-4764682-\$ or US-5625210-\$ or US-6097022-\$ or US-5471515-\$ or US-5614744-\$ or US-6002123-\$ or US-6309075-\$ or US-5904493-\$ or US-4602289-\$ or US-6211553-\$ or US-6184945-\$ or US-6242801-\$ or US-6124595-\$ or US-6084669-\$).did. or (US-6069651-\$ or US-6066846-\$ or US-5903016-\$ or US-5719414-\$ or US-5608451-\$ or US-5543868-\$ or US-5394005-\$ or US-6259124-\$ or US-6366365-\$ or US-6363046-\$).did. or (US-20020008767-\$).did. or (EP-932302-\$).did.	USPAT; US-PGPUB; EPO	2004/06/28 11:45
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	5	((US-6522356-\$ or US-6753912-\$ or US-6654057-\$ or US-6650369-\$ or US-5796481-\$ or US-6707497-\$ or US-6197503-\$ or US-5119183-\$ or US-5519497-\$ or US-4594514-\$ or US-4697280-\$ or US-4080723-\$ or US-4764682-\$ or US-5625210-\$ or US-6097022-\$ or US-5471515-\$ or US-5614744-\$ or US-6002123-\$ or US-6309075-\$ or US-5904493-\$ or US-4602289-\$ or US-6211553-\$ or US-6184945-\$ or US-6242801-\$ or US-6124595-\$ or US-6084669-\$).did. or (US-6069651-\$ or US-6066846-\$ or US-5903016-\$ or US-5719414-\$ or US-5608451-\$ or US-5543868-\$ or US-5394005-\$ or US-6259124-\$ or US-6366365-\$ or US-6363046-\$).did. or (US-20020008767-\$).did. or (EP-932302-\$).did.) and MTF	USPAT; US-PGPUB; EPO; JPO	2004/06/28 11:47
	6	((US-6522356-\$ or US-6753912-\$ or US-6654057-\$ or US-6650369-\$ or US-5796481-\$ or US-6707497-\$ or US-6197503-\$ or US-5119183-\$ or US-5519497-\$ or US-4594514-\$ or US-4697280-\$ or US-4080723-\$ or US-4764682-\$ or US-5625210-\$ or US-6097022-\$ or US-5471515-\$ or US-5614744-\$ or US-6002123-\$ or US-6309075-\$ or US-5904493-\$ or US-4602289-\$ or US-6211553-\$ or US-6184945-\$ or US-6242801-\$ or US-6124595-\$ or US-6084669-\$).did. or (US-6069651-\$ or US-6066846-\$ or US-5903016-\$ or US-5719414-\$ or US-5608451-\$ or US-5543868-\$ or US-5394005-\$ or US-6259124-\$ or US-6366365-\$ or US-6363046-\$).did. or (US-20020008767-\$).did. or (EP-932302-\$).did.) and crosstalk	USPAT; US-PGPUB; EPO; JPO	2004/06/28 12:01
-	10	("5434619"   "5493423"   "5793423"   "5898168"   "5933190"   "5962844"   "6097022"   "6115066"   "6166767"   "6344877").PN.	USPAT	2004/06/28 11:51

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-	1	6002123.pn.	USPAT;	2004/06/28 12:13
			US-PGPUB;	
į			ЕРО; ЛРО	2004/06/00 12:22
-	34	photodiode and reset and transfer and source and crosstalk and fill	USPAT;	2004/06/28 12:32
			US-PGPUB;	
	,	UCC22224U	ЕРО; ЛРО	2004/06/20 12:27
-	1	"6633334"	USPAT;	2004/06/28 12:37
			US-PGPUB;	
	16	("4835404"   "4879470"   "4967067"   "4972243"   "5162912"	EPO; JPO USPAT	2004/06/28 12:32
-	10	(4833404   4873470   4907007   4972243   3102912     "5184006"   "RE34309"   "5262870"   "5539196"   "5693932"	USFAI	2004/00/26 12.32
	ľ	"5714752"   "5955753"   "6094220"   "6160281"   "6352869"		
		"6423994").PN.		
_	1	Mendis and cmos and crosstalk and (fill adj factor)	USPAT;	2004/06/28 12:57
		institute talla entes talla entes talla (ini and institut)	US-PGPUB;	200 1700/20 12.57
			ЕРО; ЛРО	
-	9	"6002123"	USPAT;	2004/06/28 12:57
			US-PGPUB;	
			ЕРО; ЛРО	
_	3	("5841126"   "5898168"   "5900623").PN.	USPAT	2004/06/28 12:59
} _	42		USPAT;	2004/06/28 13:54
		US-5796481-\$ or US-6707497-\$ or US-6197503-\$ or US-5119183-\$ or	US-PGPUB;	
		US-5519497-\$ or US-4594514-\$ or US-4697280-\$ or US-4080723-\$ or	EPO	
		US-4764682-\$ or US-5625210-\$ or US-6097022-\$ or US-5471515-\$ or		
		US-5614744-\$ or US-6002123-\$ or US-6309075-\$ or US-5904493-\$ or		
		US-4602289-\$ or US-6211553-\$ or US-6184945-\$ or US-6242801-\$ or		
		US-6124595-\$ or US-6084669-\$).did. or (US-6069651-\$ or		
		US-6066846-\$ or US-5903016-\$ or US-5719414-\$ or US-5608451-\$ or		
		US-5543868-\$ or US-5394005-\$ or US-6259124-\$ or US-6366365-\$ or		
		US-6363046-\$ or US-5962844-\$ or US-5793423-\$ or US-5898168-\$ or		
	48	US-6633334-\$).did. or (US-20020008767-\$).did. or (EP-932302-\$).did. cmos and micro\$5 and (square near7 photodiode)	USPAT;	2004/06/28 15:01
_	48	cinos and inicroso and (square near / photodiode)	US-PGPUB;	2004/06/28 15:01
			ЕРО; ЛРО	
	5	("4677453"   "4901129"   "5479049"   "5705837"   "5920092").PN.	USPAT	2004/06/28 14:47
_	0	square adj2( image adj area near4 sensing)	USPAT;	2004/06/28 14:56
		square adja( mage adj area near / benomb/	US-PGPUB;	200 11 00/20 1 11.50
			ЕРО; ЛРО	
-	8	(square adj2 image adj area) and CMOS	USPAT;	2004/06/28 14:56
			US-PGPUB;	
			ЕРО; ЛРО	
-	38	cmos and micro\$5 adj len\$3 and hemispher\$7	USPAT;	2004/06/28 15:04
		-	US-PGPUB;	
			ЕРО; ЈРО	
-	29	cmos and (microlen\$3 and hemispher\$7)	USPAT;	2004/06/28 15:09
			US-PGPUB;	
		(H200 430 4H   H270200 FH   H410 FO (OH   H1270 FT )	EPO; JPO	0004/06/20 17 1
-	71	("3234394"   "3723805"   "4125862"   "4152724"   "4191967"	USPAT	2004/06/28 15:07
		"4204230"   "4240727"   "4463380"   "4518898"   "4549208"		
		"4554585"   "4574311"   "4602289"   "4661855"   "4670648"		
		"4683498"   "4720746"   "4728839"   "4736436"   "4740839"   "4751660"   "4752831"   "4757384"   "4772942"   "4797562"		
		"4751000"   "4752831"   "4757384"   "4772942"   "4797362"     "4797942"   "4807158"   "4819070"   "4835532"   "4837429"		
		4797942		
		"489473"   "4893025"   "4899293"   "4918473"   "4924094"		
		"4928174"   "4942473"   "4945367"   "4965844"   "4991020"		
		"5005083"   "5019912"   "5020114"   "5023725"   "5043817"		
		"5048102"   "5057923"   "5067019"   "5068735"   "5077609"		
		"5107122"   "5140395"   "5173948"   "5175808"   "5185667"		
		"5200818"   "5231673"   "5243433"   "5276519"   "5276521"		
		"5313306"   "5359363"   "5396583"   "5428390"   "5489940"		
		"5905530").PN.		
	i		1	

-	84	microlen\$3 near7 fill	USPAT;	2004/06/28.15:29
			US-PGPUB;	
			ЕРО; ЈРО	
-	18	(microlen\$3 near7 fill) and hemispher\$7	USPAT;	2004/06/28 15:35
		•	US-PGPUB;	
			ЕРО; ЛРО	
_	15	((micro adj len\$3) near7 fill) and hemispher\$7	USPAT;	2004/06/28 15:40
		((Control and control and cont	US-PGPUB;	200 1100120 12:10
			ЕРО; ЛРО	
_	172	((micro adj len\$3)) and hemispher\$7	USPAT;	2004/06/28 16:05
-	''-	((intere and resides)) and normaphora	US-PGPUB;	2004/00/20 10:05
			ЕРО; ЈРО	
_	2	"5595930" and hemispher\$7	USPAT;	2004/06/28 16:05
-	-	3373730 and nemapher 47	US-PGPUB;	2004/00/28 10.03
			EPO; JPO	
	5260	(areas adi talle) and antim\$5		2004/06/00 16:40
-	5260		USPAT	2004/06/28 16:48
-	164	(cross adj talk) near7 optim\$5	USPAT	2004/06/28 17:04
-	25	(cross adj talk) near7 optim\$5 and sensor\$2	USPAT	2004/06/28 17:04
-	4	("5043582"   "5619033"   "6054746"   "6288435").PN.	USPAT	2004/06/28 17:06
-	14	("4670765"   "4672454"   "4675739"   "4785186"   "5017989"	USPAT	2004/06/28 17:11
		"5079426"   "5117114"   "5164809"   "5235195"   "5319206"		
		"5381014"   "5396072"   "5420452"   "5516712").PN.		
- !	5	(square near3 active) same photodiode	USPAT;	2004/06/29 06:58
			US-PGPUB;	
			ЕРО; ЈРО	
-	13	(square near3 (active adj sensing)) andphotodiode	USPAT;	2004/06/29 07:02
		• • • • • • • • • • • • • • • • • • • •	US-PGPUB;	
			ЕРО; ЛРО	
-	0	(square near3 (active adj sensing)) and photodiode	USPAT;	2004/06/29 07:02
!		(1) (1)	US-PGPUB;	
			ЕРО; ЛРО	
<u>-</u>	4	(square near3 (image adj sensing)) and photodiode	USPAT;	2004/06/29 07:25
		(Square near) (mage and sensing)) and photogroup	US-PGPUB;	2004/00/27 07.23
		·	EPO; JPO	
	293	fossum and square	USPAT;	2004/06/29 07:25
-	293	1055uiii ailu square		2004/00/29 07.23
			US-PGPUB;	
	160	facetime and actions and among	ЕРО; ЛРО	2004/06/20 07:20
-	160	fossum and square and cmos	USPAT;	2004/06/29 07:28
			US-PGPUB;	
			ЕРО; ЛРО	
-	60	photodiode and (floating adj node)	USPAT;	2004/06/29 08:15
			US-PGPUB;	
1			ЕРО; ЈРО	1
i - I	17	("5012344"   "5471515"   "5587596"   "5608243"   "5625210"	USPAT	2004/06/29 07:59
		"5631704"   "5698844"   "5721425"   "5760458"   "5786623"		
]		"5789774"   "5838650"   "5847422"   "5872371"   "6150704"		
		"6184516"   "6466266").PN.		
-	17	(photodiode or (photo adj diode)) and (floating adj node) and square	USPAT;	2004/06/29 08:45
			US-PGPUB;	
			ЕРО; ЛРО	
<u>-</u>	16	(photodiode or (photo adj diode)) and (floating adj node) and square and	USPAT;	2004/06/29 09:08
		transfer	US-PGPUB;	200 1700/27 07:00
			ЕРО; ЛРО	
_	189	pinned adj photodiode	USPAT;	2004/06/29 09:29
]	10)	printed adj priotodrode	US-PGPUB;	2004/00/29 09.29
]			EPO; JPO	
_	148	"5625210"		2004/06/20 00:11
] -	140	3023210	USPAT;	2004/06/29 09:11
,	Ī		US-PGPUB;	
			ЕРО; ЛРО	
	<u>.</u>	Zulina 4 - 41 - 41 - 41 - 42 - 42 - 32 - 3		0004105155
_	51	(pinned adj photodiode) and square	USPAT;	2004/06/29 10:59
-	51	(pinned adj photodiode) and square	USPAT; US-PGPUB;	2004/06/29 10:59
-	51	(pinned adj photodiode) and square  ("4282535"   "5847836"   "5956051").PN.	USPAT;	2004/06/29 10:59

-	29	"5986297" and cross\$5	USPAT; US-PGPUB;	2004/06/29 11:17
			ЕРО; ЈРО	
l _	1	"6633334" and cross\$5	USPAT;	2004/06/29 12:37
	1	TOTAL STORY		2007/00/27 12.37
			US-PGPUB;	
	410		ЕРО; ЈРО	
-	410	pixel and reduce near2 distance	USPAT;	2004/06/29 12:38
			US-PGPUB;	
	1		ЕРО; ЈРО	
<b>.</b>	410	pixel and (reduce near2 distance)	USPAT;	2004/06/29 12:38
		,	US-PGPUB;	200 11 00,27 12,50
			ЕРО; ЛРО	
-	200	pixel and (reduce near2 distance near2 between)	USPAT;	2004/06/29 12:39
			US-PGPUB;	
1			ЕРО; ЈРО	
-	32	pixel SAME (reduce near2 distance near2 between)	USPAT;	2004/06/29 12:42
			US-PGPUB;	200 1100,27 12.12
	122	-in-1 (A) (C) (in-max. 2 1 1/4 )	EPO; JPO	2004/06/20 46 20
-	432	pixel SAME (increase near2 density)	USPAT;	2004/06/29 16:23
		•	US-PGPUB;	
	1		ЕРО; ЈРО	
_	72	pixel SAME (increase near2 density) and (mos cmos)	USPAT;	2004/06/29 16:24
	1	The control of the co	US-PGPUB;	100.000
			1	
	000	minal CANCO distance and	ЕРО; ЛРО	0004/03/20 22 2
-	899	pixel SAME (distance same image) and (mos cmos)	USPAT;	2004/06/29 16:24
			US-PGPUB;	
			ЕРО; ЛРО	
-	599	pixel SAME (distance WITH (image imaging)) and (mos cmos)	USPAT;	2004/06/29 16:25
			US-PGPUB;	
			EPO; JPO	
	24	nivel SAME (digtance WITTI (image imagine))		2004/06/20 36 25
-	34	pixel SAME (distance WITH (image imaging)) same (reduce decrease)	USPAT;	2004/06/29 16:35
		and (mos cmos)	US-PGPUB;	
			ЕРО; ЛРО	
-	390	square near2 (photodiode (photo adj sensitive) photosensitive)	USPAT;	2004/06/29 16:39
			US-PGPUB;	
	1		ЕРО; ЛРО	
_	39	square near2 (photodiode (photo adj sensitive) photosensitive) with area		2004/06/20 16:42
-	39	square nearz (photodrode (photo adj sensitive) photosensitive) with area	USPAT;	2004/06/29 16:43
			US-PGPUB;	
			ЕРО; ЛРО	
1-	2813	fill adj factor	USPAT;	2004/06/29 16:43
			US-PGPUB;	
}			ЕРО; ЛРО	
_	449	(fill adj factor) and photodiode	USPAT;	2004/06/29 16:46
	'''	Carra and annual previous prev	1	2007/00/27 10.40
			US-PGPUB;	
	50005		ЕРО; ЈРО	
-	520051	distance adj between (image adj sensing)	USPAT;	2004/06/29 16:47
			US-PGPUB;	
			ЕРО; ЛРО	
-	27	distance adj between adj (image adj sensing)	USPAT;	2004/06/29 16:49
		J J (	US-PGPUB;	20000/27 10,47
	402	Alaton and that was all (alaton and the	EPO; JPO	2004/06/55 55
-	483	distance adj between adj (photosensitive)	USPAT;	2004/06/29 16:49
			US-PGPUB;	
			ЕРО; ЛРО	
j -	23	(distance adj between adj (photosensitive)) and (photodiode photogate)	USPAT;	2004/06/29 16:53
			US-PGPUB;	
			ЕРО; ЛРО	
_	11544	resolution and (photodiada photogota)		2004/06/20 16:51
1 - 1	11344	resolution and (photodiode photogate)	USPAT;	2004/06/29 16:54
1			US-PGPUB;	
			ЕРО; ЈРО	
-	212	increased adj resolution and (photodiode photogate)	EPO; JPO USPAT;	2004/06/29 16:56
-	212	increased adj resolution and (photodiode photogate)	USPAT;	2004/06/29 16:56
-	212	increased adj resolution and (photodiode photogate)		2004/06/29 16:56

-	119	increased adj resolution and (photodiode photogate) and (square rectang\$4)	USPAT; US-PGPUB;	2004/06/29 16:56
	ŀ		ЕРО; ЈРО	
-	18	increased adj resolution and (photodiode photogate) SAME (square rectang\$4)	USPAT; US-PGPUB;	2004/06/29 17:10
			ЕРО; ЈРО	
<u>-</u>	5126	(increas\$3 decreas\$3) and (photodiode photogate photosensitive) SAME	USPAT;	2004/06/29 17:11
		(square rectang\$4)	US-PGPUB;	
		(Square recumbs 1)	ЕРО; ЛРО	
	220	(increas\$3 decreas\$3) WITH (photodiode photogate photosensitive)		2004/06/20 17:11
•	220		USPAT;	2004/06/29 17:11
		SAME (square rectang\$4)	US-PGPUB;	
			ЕРО; ЈРО	
-	15	(increas\$3 decreas\$3) WITH (photodiode photogate photosensitive)	USPAT;	2004/06/29 17:18
		SAME (square rectang\$4) with pixel	US-PGPUB;	
	ļ		ЕРО; ЈРО	
-	7	(increas\$3 decreas\$3) WITH (square rectang\$4) with pixel adj density	USPAT;	2004/06/29 17:18
		(signature desiration) (signature restaurable /) (signature restaurable restau	US-PGPUB;	2001/00/27 17:10
			EPO; JPO	
	255	41.4		2004/06/20 07:20
<b>-</b>	355		USPAT	2004/06/30 07:38
-	0	reduce near2 distance adj between adj pixels	USPAT	2004/06/30 07:39
-	1	reduces near2 distance adj between adj pixels	USPAT	2004/06/30 07:40
-	5	reduce\$2 near2 (distance adj between adj pixels)	USPAT	2004/06/30 07:42
-	541	257/\$.ccls. and (reduce\$2 near2 (distance adj between ))	USPAT	2004/06/30 07:43
-	2	257/\$.ccls. and (reduce\$2 near2 (distance adj between) with (pixels	USPAT	2004/06/30 07:47
		sensing))		
_	573	257/\$.ccls. and (optimize\$2 with (distance spac\$4))	USPAT	2004/06/30 07:48
_	148	257/\$.ccls. and (optimize\$2 with (distance spac\$4)) 257/\$.ccls. and (optimize\$2 near2 (distance spac\$4))	USPAT	2004/06/30 07:49
-	T .			
-	12	257/\$.ccls. and (optimize\$2 near2 (distance spac\$4)) and (crosstalk	USPAT	2004/06/30 08:01
		cross-talk)		
-	2657	257/\$.ccls. and (crosstalk cross-talk)	USPAT	2004/06/30 08:01
-	90	(257/\$.ccls. 348/\$.ccls.) and ((crosstalk cross-talk) same (photosensor	USPAT	2004/06/30 09:32
1		sensing))		
ĺ <b>-</b>	49	(257/\$.ccls. 348/\$.ccls.) and ((crosstalk cross-talk) same (photosensor	USPAT	2004/06/30 09:44
		sensing)) and (distance proximity)		
l _	7	("4667092"   "5032718"   "5311337"   "5535028"   "5744826"	USPAT	2004/06/30 09:38
	· ·	"5759078"   "5818052").PN.	001711	200 11 00/30 07:30
	113	pixel adj (geometry)	USPAT	2004/06/30 14:33
-	1		USPAT	2004/06/30 10:26
-	16	(pixel adj (geometry)) and (fill adj factor)		
-	11	"5595930"	USPAT	2004/06/30 10:29
-	34	"5904493"	USPAT	2004/06/30 10:29
-	1	5904493.pn.	USPAT	2004/06/30 13:56
-	48	guidash and kodak	USPAT	2004/06/30 13:56
-	2	guidash and kodak and MTF	USPAT	2004/06/30 14:51
-	47	crosstalk and pixel and MTF	USPAT	2004/06/30 14:33
-	81	crosstalk and pixel and MTF	USPAT;	2004/06/30 14:53
1		<u> </u>	US-PGPUB;	
			EPO; JPO	
l _	3	guidash and kodak and MTF	USPAT;	2004/06/30 14:51
-	3	guidash and kodak and MTF		2004/00/30 14.31
			US-PGPUB;	
			ЕРО; ЈРО	
-	18	crosstalk SAME ((image adj sens\$4) (photosens\$4)) SAME MTF	USPAT;	2004/06/30 14:57
			US-PGPUB;	
ļ			ЕРО; ЈРО	
<b> </b> -	390	((image adj sens\$4) (photosens\$4)) SAME MTF	USPAT;	2004/06/30 14:58
1			US-PGPUB,	
1			EPO; JPO	
_	19	("4373167"   "4467341"   "4696021"   "4928158"   "4958207"	USPAT	2004/06/30 15:10
	"	(4373107   4407341   4090021   4928138   4938207     "4977584"   "5028970"   "5235197"   "5479049"   "5493143"	JOIAI	2004/00/30 13.10
1				
1		"5631704"   "5739548"   "5789774"   "5841158"   "5867215"		1
	1	"5880495"   "5892253"   "5977576"   "5986297").PN.	1	1
			1105	0004104155
-	21	5986297.URPN. 5986297.URPN. and (MTF crosstalk)	USPAT USPAT	2004/06/30 15:11 2004/07/06 16:41

-	2	"6492848"	USPAT;	2004/06/30 16:17
			US-PGPUB;	1
			ЕРО, ЛРО	
-	20	5986297.URPN. and (MTF crosstalk cmos)	USPAT	2004/07/06 16:41
-	1	5986297.PN. and (MTF crosstalk cmos)	USPAT	2004/07/07 07:56
-	1	6633334.PN. and (MTF crosstalk cmos)	USPAT	2004/07/07 07:44
-	0	6633334.PN. and (lens\$3)	USPAT	2004/07/07 07:44
-	0	6633334.PN. and (micro\$6)	USPAT	2004/07/07 11:09
-	1	5986297.PN. and (array)	USPAT	2004/07/07 07:56
-	0	6633334.PN. and (acive)	USPAT	2004/07/07 08:14
-	1	6633334.PN. and (active)	USPAT	2004/07/07 08:15